OMNITRONIC®

OMNITRONIC EX-530

Battle Mixer

Service-manual

Serviceunterlagen

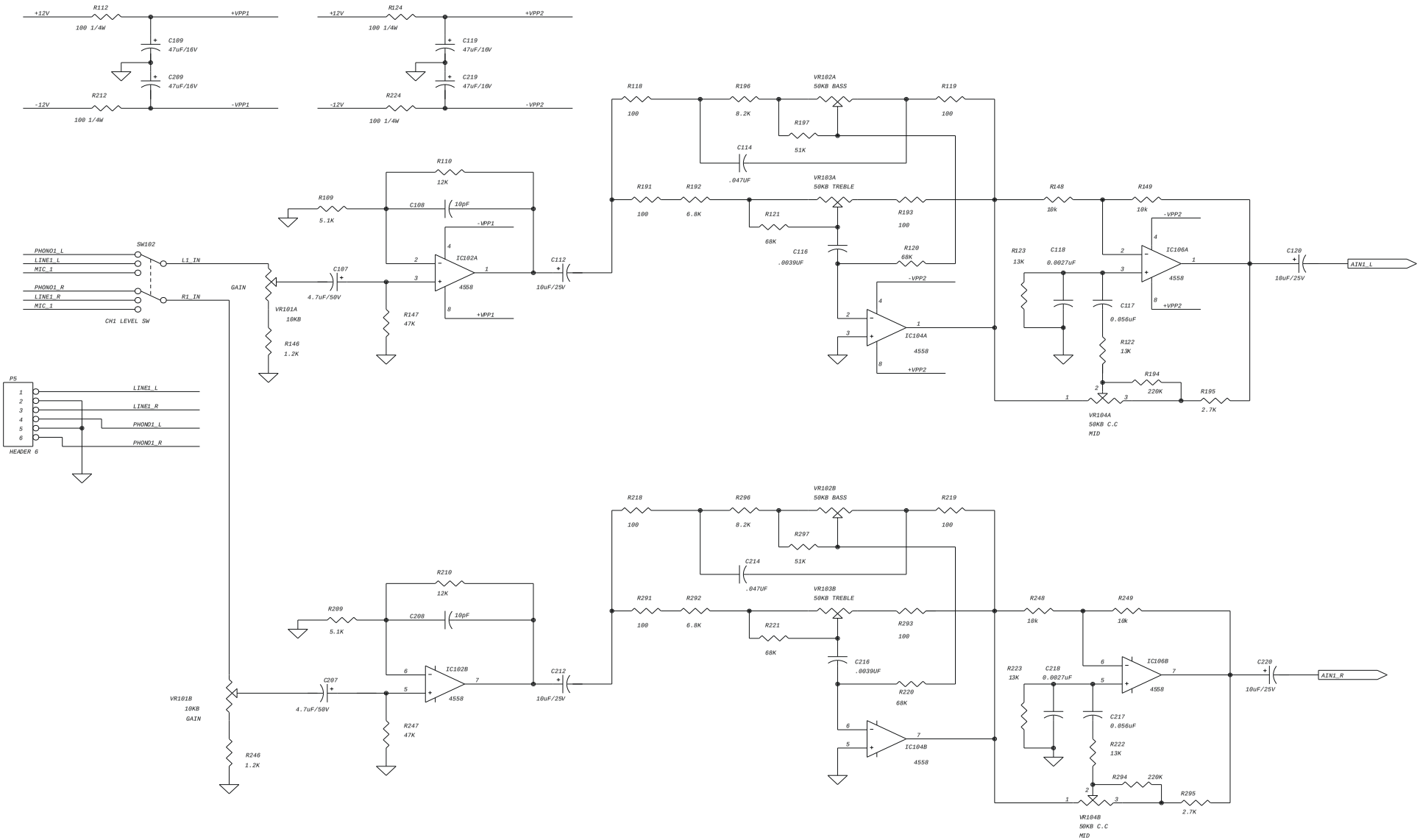
Documents techniques

Documentos de servicio

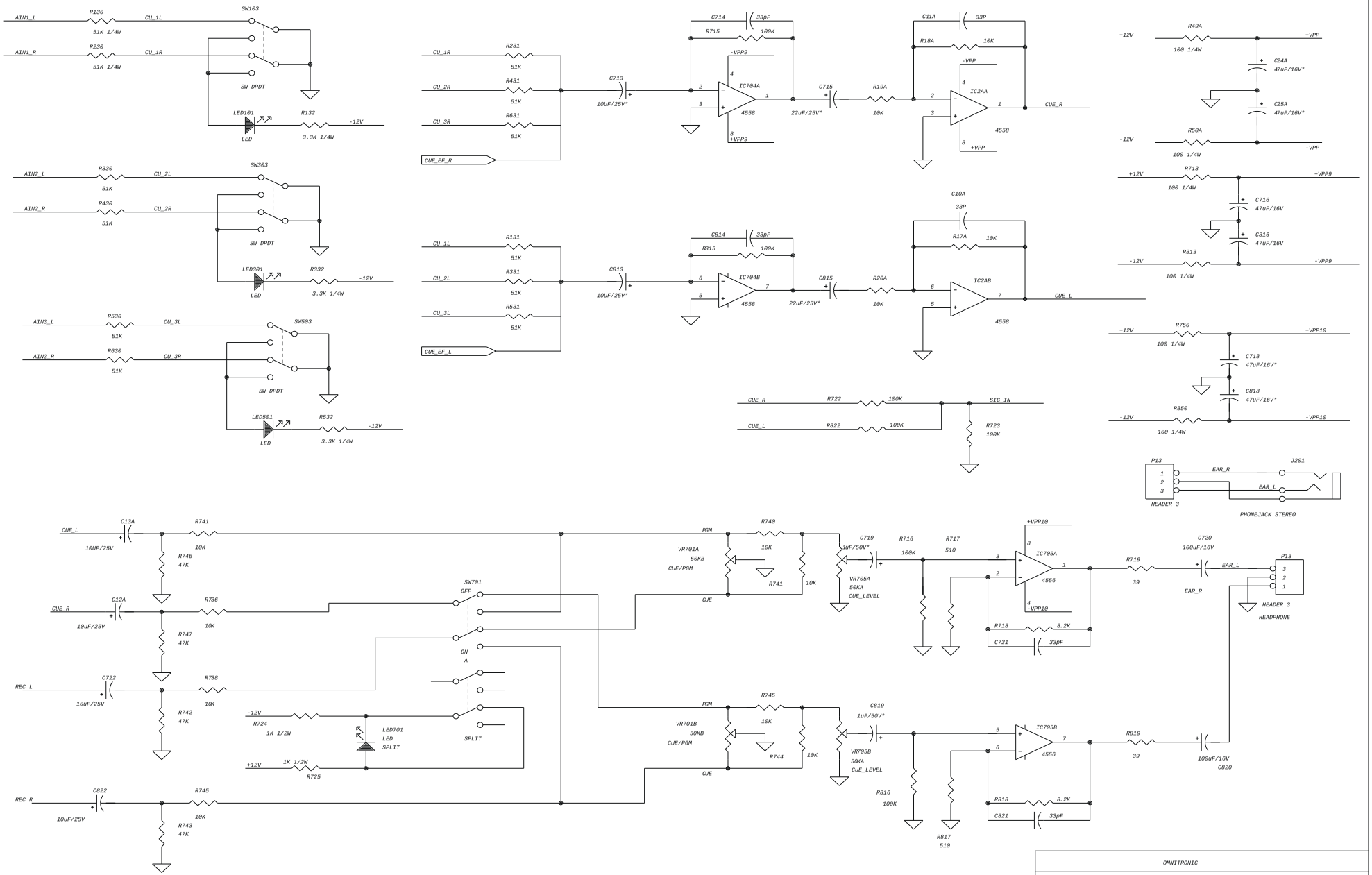
Version 1.0

Ersatzteilliste/Spare-parts list/Pièces de réchange/Piezas de recambio

I.	No.	Artikelbeschreibung	Article designation	Description d'article	Descripción del artículo
1	E0193910	Netzteil für EX-530 (Europäische Version)	Power unit for EX-530 (european version)	Bloc d'alimentation p.EX-530 (vers.Euro)	Bloque de aliment.p.EX-530 (vers.Euro)
2	E0193911	Netzteil für EX-530 (US Version)	Power unit for EX-530 (US version)	Bloc d'alimentation p.EX-530 (vers.US)	Bloque de aliment.p.EX-530 (vers.US)
3	E0193912	Netzteil für EX-530 (UK Version)	Power unit for EX-530 (UK version)	Bloc d'alimentation p.EX-530 (vers.UK)	Bloque de aliment.p.EX-530 (vers.UK)
4	E0193913	Netzteil für EX-530 (Austral. Version)	Power unit for EX-530 (Austral. version)	Bloc d'alimentation p.EX-530(vers.Austra)	Bloque de aliment.p.EX-530 (vers.Austral)
5	E0199880	Netzleitung (EU Version)	Power-cable (EU version)	Câble d'alimentation (version EU)	Cordón de conexión a la red (version EU)
6	E0199881	Netzleitung (US Version)	Power-cable (US version)	Câble d'alimentation (version US)	Cordón de conexión a la red (version US)
7	E0199882	Netzleitung (UK Version)	Power-cable (UK version)	Câble d'alimentation (version UK)	Cordón de conexión a la red (version UK)
8	E0199883	Netzleitung (Australische Version)	Power-cable (Australian version)	Câble d'alimentation (version Austral)	Cordón de conexión a la red (version Aus)



OMNITRONIC		
Title: EX530 CH1 TONE		
Size: B	Document Number: CH1.SCH	REV: A
Date: March 9, 2000	Sheet 6 of	



OMNITRONIC		
Title: EX530 CUE OUTPUT		
Size: B	Document Number: CUE.SCH	REV:
Date: March 9, 2000	Sheet 12 of 15	

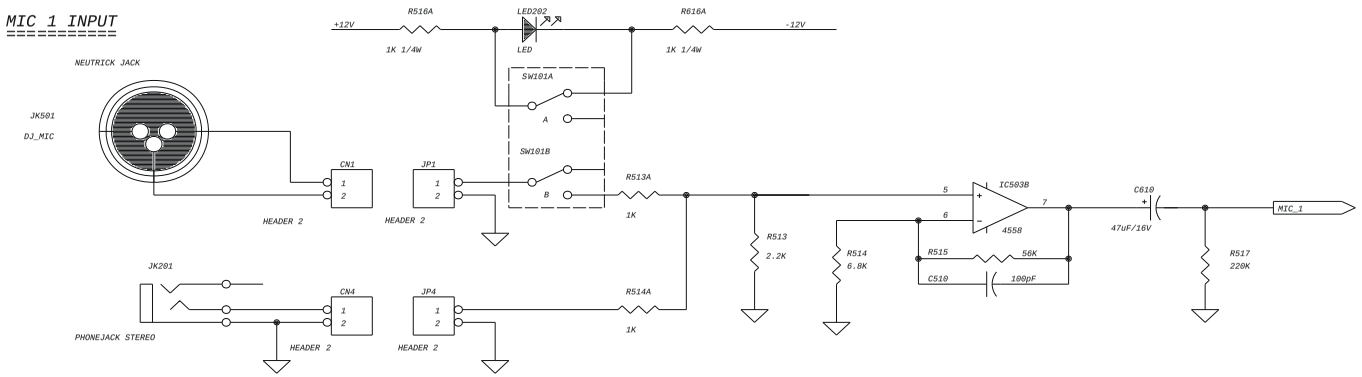
Test Point vs. Function

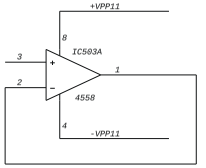
	EFX_LVL1,EFX_LVL2	VCO	CLK	REP_C
FLANGER		5V F=5Hz SPEED=MIN F=1Hz SPEED=MAX 3.2V		0.6V
ECHO	4Vdc	1V (SPEED MAX) 5.7V(SPEED=MIN)	1.9MHz 7MHz	0V
AUTO PAN	4.4V F=0.2Hz SPEED=MIN F=1Hz SPEED=MAX 0v			
SEND RETURN	4Vdc			

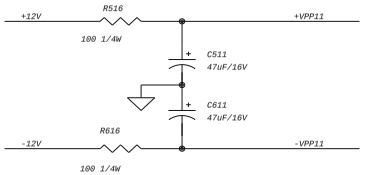
REAR PCB

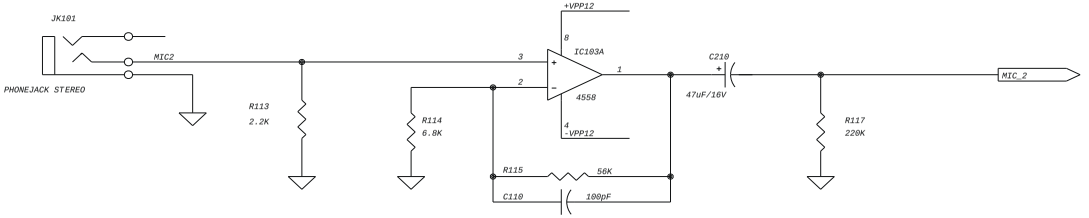
J901A RETURN L RCA JACK
J901B RETURN R RCA JACK
U901A U901B 4558
J901C RCA JACK SEND L
J901D RCA JACK SEND R
U902A U902B 4558
CN06 HEADER 2
U17 PH4092
U18 4164/41256
U20 16V8
U1 U2 U3 U4 U5 4053
U16 LM311
U14 74LS624
U6A U6B SSM-2024
U7A U7B U15A U15B U21A U21B 4558
U8A U8B U9A U9B 4069
U10 U11 16V8
U12A U12B U18A U18B U19A U19B 4558
U13 4053
CN01 HEADER 13
CN02 HEADER 4
CN03 HEADER 7
CN04 HEADER 11
CN05 HEADER 7
JP04 HEADER 11
MASTER PCB
CHANNEL ASSIGN
SW2 EFFECT
SW4 START/STOP
SW5
SW3A SW3B
LED1 LED2 BLUE LED
VR1A VR1B 10KB EFX LEVEL
VR2A VR2B 10KB*2 SPEED
Q1 Q2 2SC1815
Q4 Q5 2SC1815
Q6 2SA1015
Q7 2SC2878
Q9 2SK30A
Q10 2SC1815
Q11 2SA1015
Q12 2SC1815
D1 D2 7.5V
D3 D4 D5 D6 D7 D8 1N4148
1N4001
1uF NP
3.3uF NP
0.001uF
4047uF 16V
4164/41256
16V8
4053
4069's 14 pin = +5V
4069's 7pin = DGND
FUNCT_C
FLANGE_SW
ECHO_SW
A_PAN_SW
SND_SW
START_SW
START/STOP
CH1_SW
CH2_SW
CH3_SW
MST_SW
EFX_LVL1
EFX_LVL2
VCO
TRIANGLE
V_TRIA
V_CONST
VR_SPD
EFX_L1
EFX_L2
EFX_R1
EFX_R2
GND1
MUTE_C
REP_C
F/E_R
F/E_L
OMNITRONIC
EXS30 EFX CIRCUIT
530EFX.SCH
March 9, 2000
Sheet 15 of 15
REV D

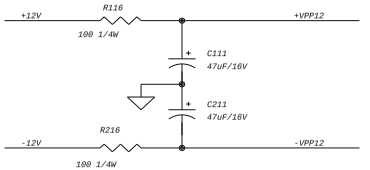
MIC 1 INPUT

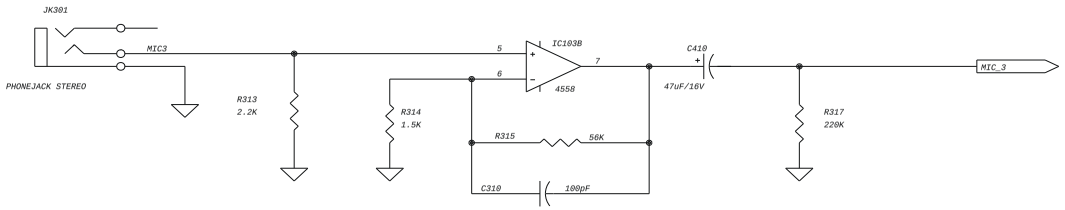


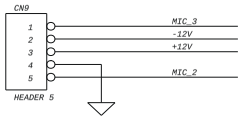




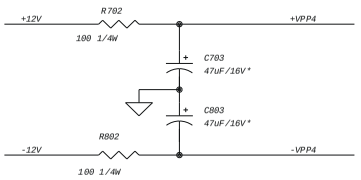


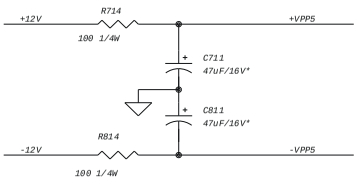


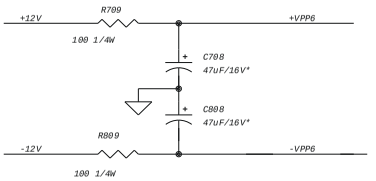


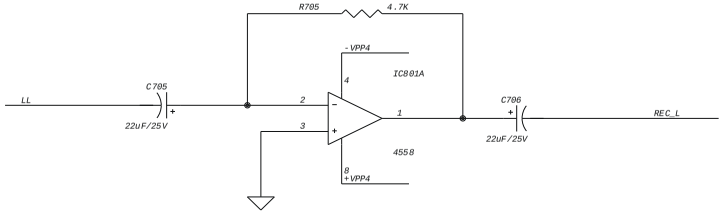


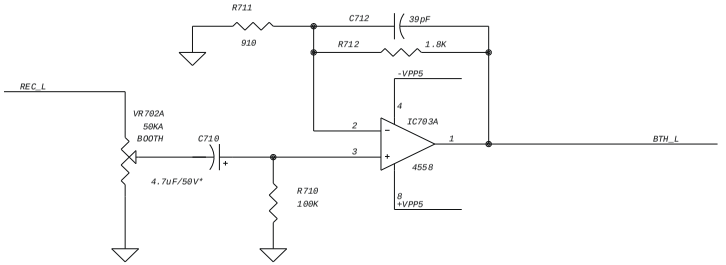
OMNITRONIC		
Title: EX530 MIC INPUT		
Size: B	Document Number: MIC.SCH	REV: A
Date: March 9, 2000	Sheet 2 of 15	

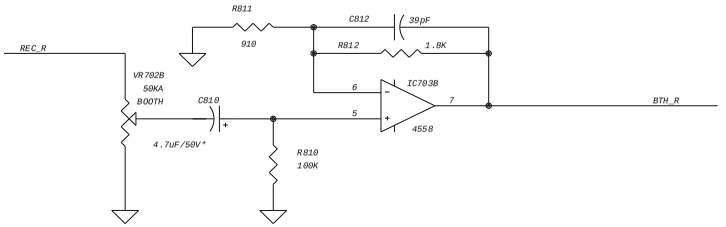


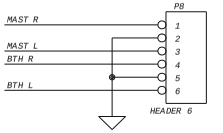


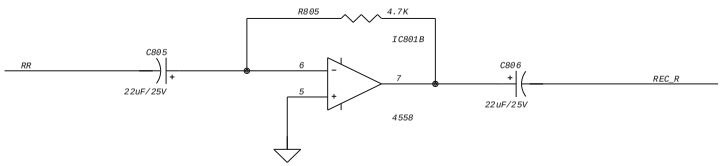


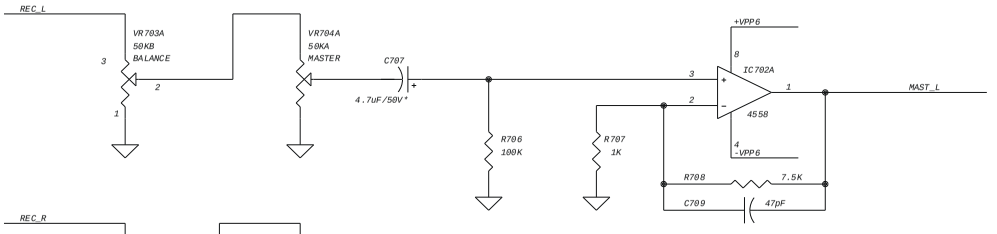


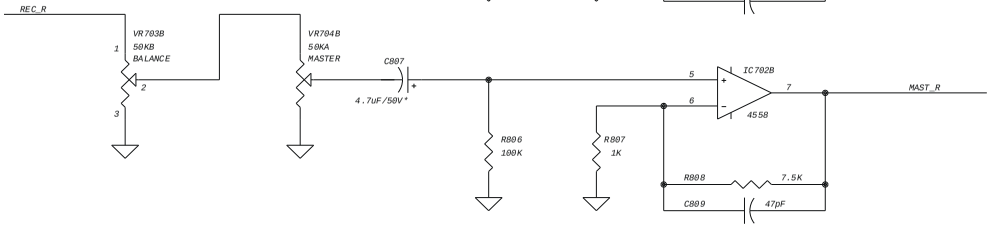


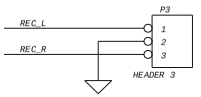












OMNITRONIC		
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Size: B	Document Number: OUTPUT.SCH	REV: A
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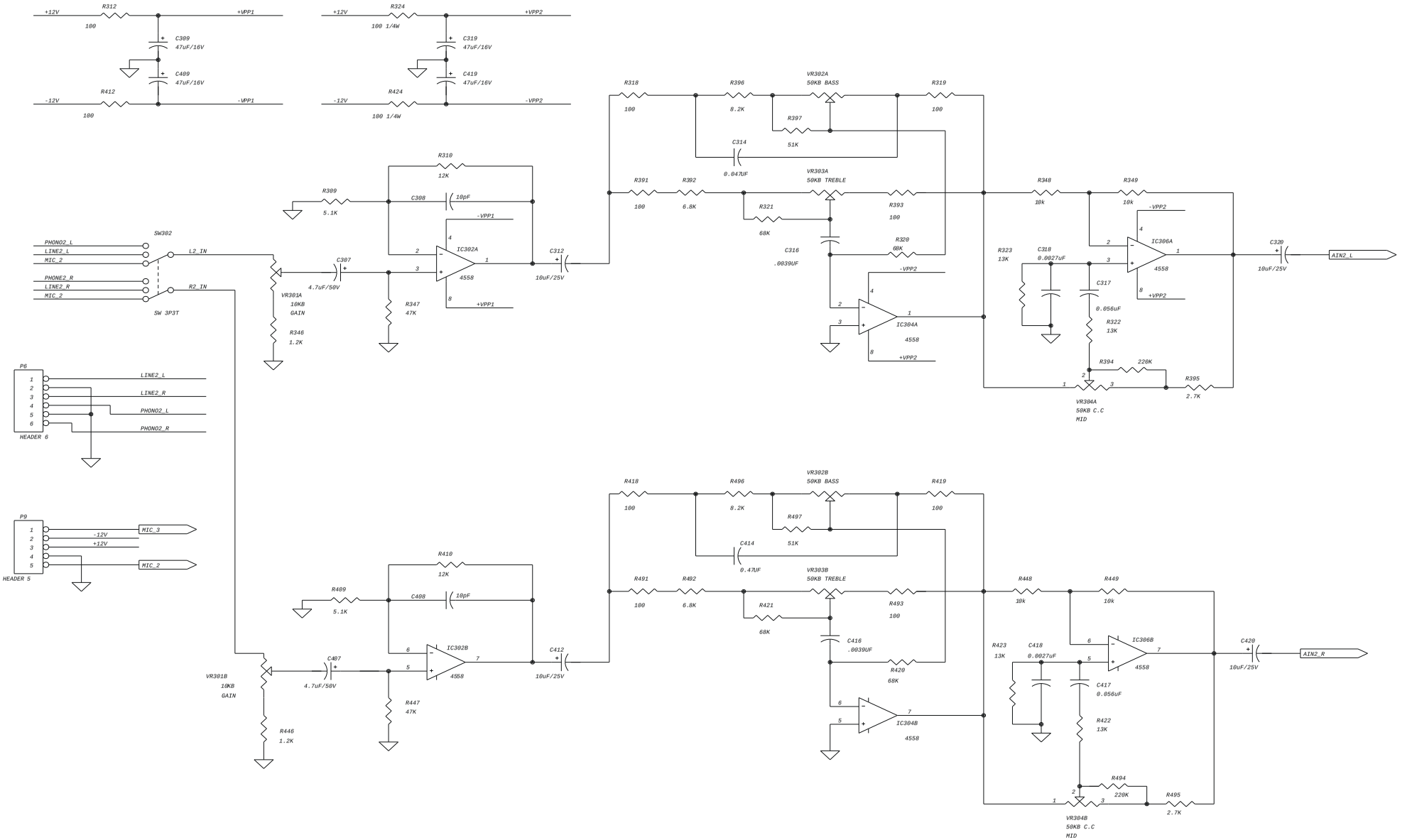

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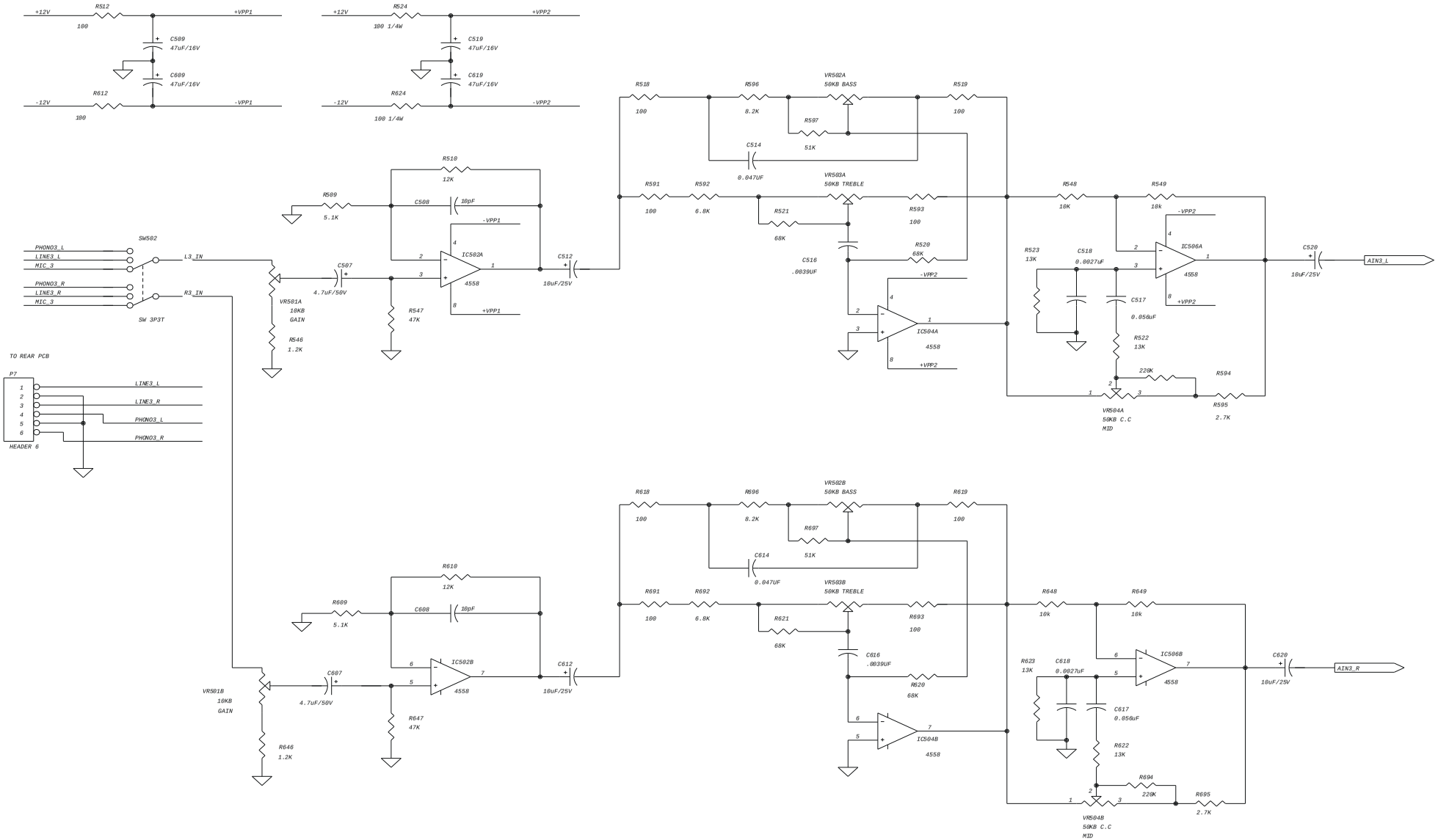
Size: B	Document Number: CH2.SCH	REV: A
Date: March 9, 2000	Sheet 7 of	



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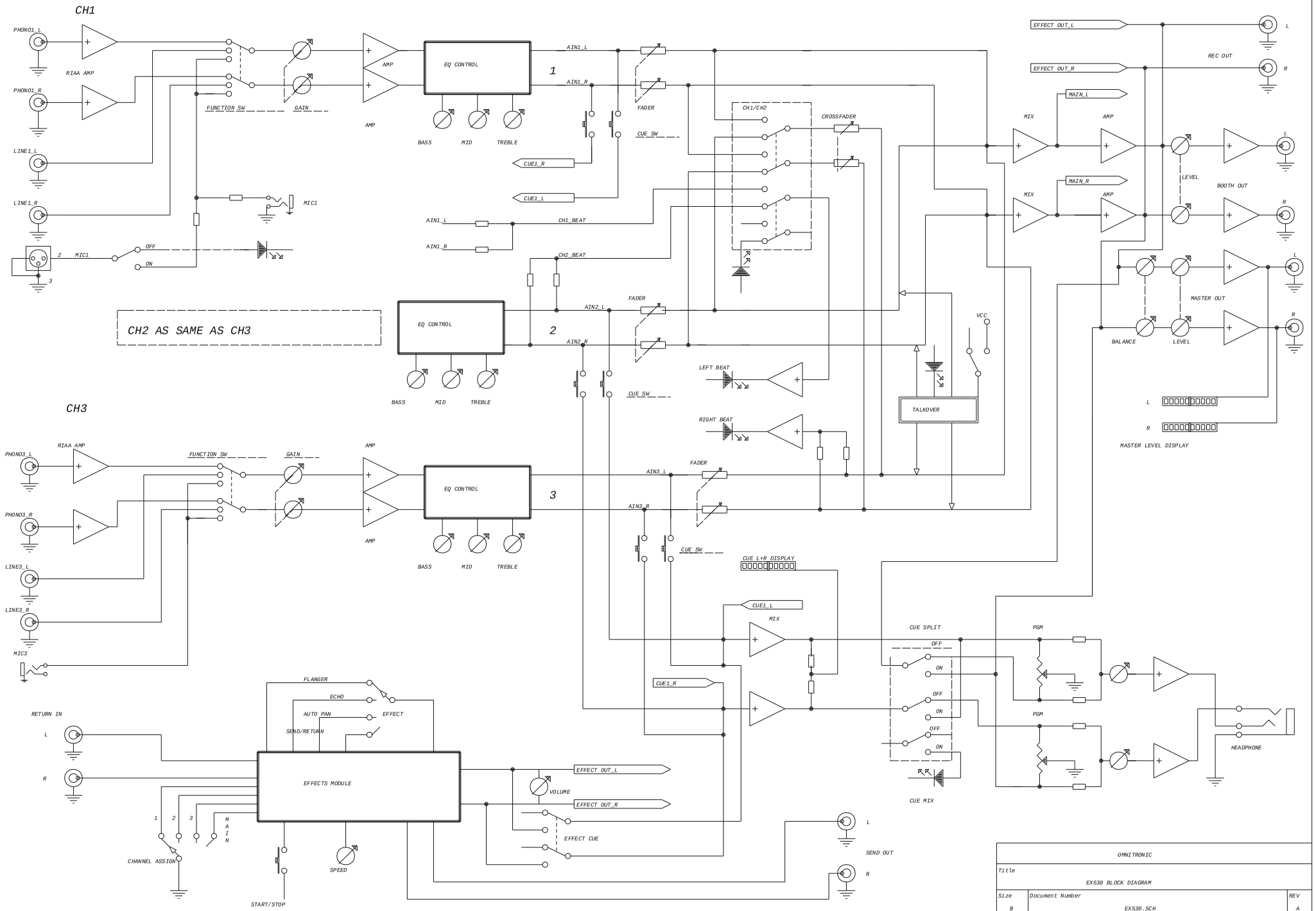
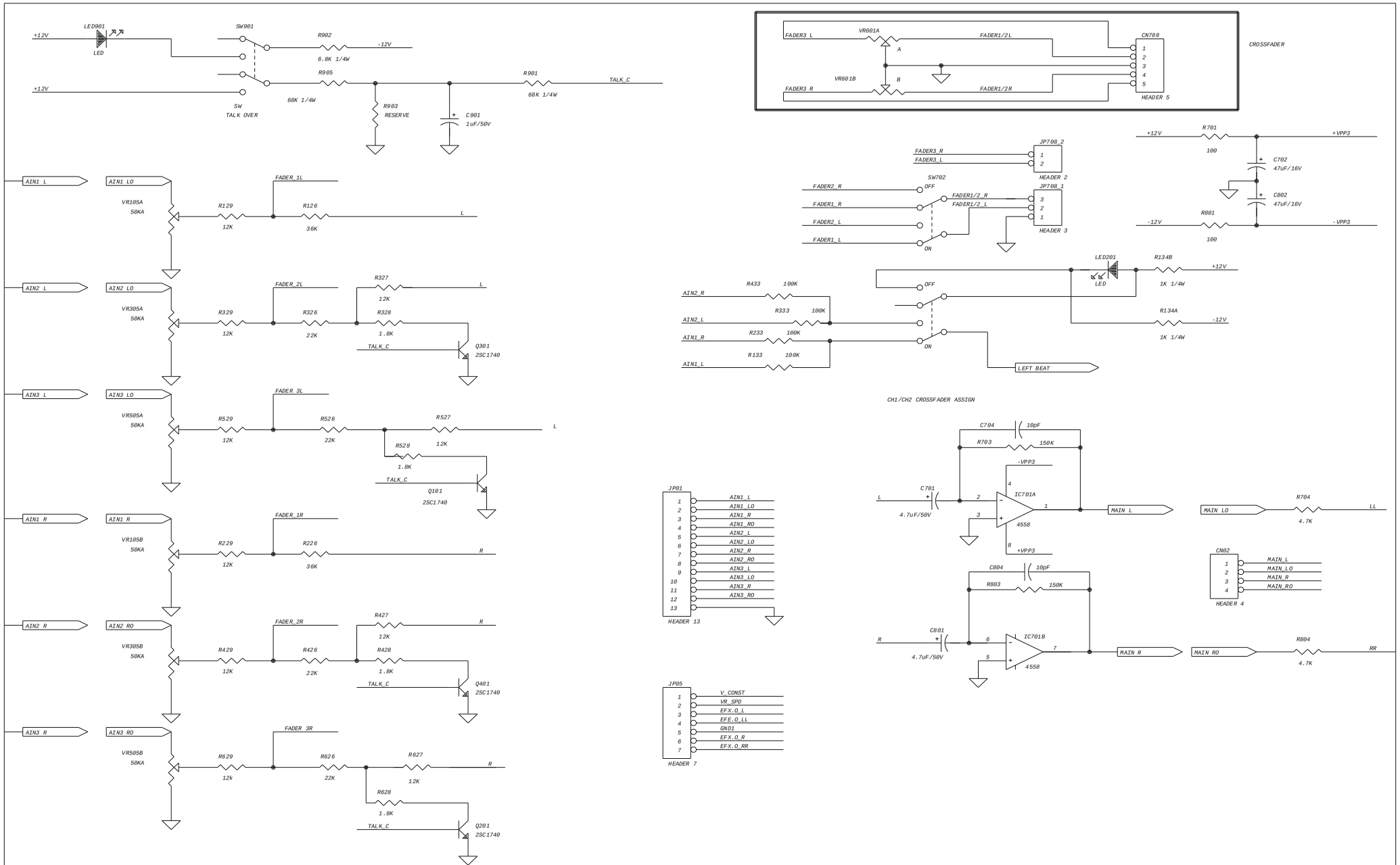
Size: B	Document Number: CH3.SCH	REV: A
Date: March 9, 2000	Sheet 8 of	


CH1
PHONO1_L
PHONO1_R
LINE1_L
LINE1_R
RIAA AMP
FUNCTION SW
GAIN
AMP
EQ CONTROL
BASS
MID
TREBLE
AIN1_L
AIN1_R
1
FADER
CUE SW
CUE1_R
CUE1_L
MIC1
OFF
ON
CH1_BEAT
CH2_BEAT
CH1/CH2
CROSSFADER
MIX
EFFECT OUT_L
EFFECT OUT_R
REC OUT
MAIN_L
MAIN_R
LEVEL
BOOTH OUT
MASTER OUT
BALANCE
MASTER LEVEL DISPLAY
CH2 AS SAME AS CH3
AIN2_L
AIN2_R
2
VCC
LEFT BEAT
RIGHT BEAT
TALKOVER
CH3
PHONO3_L
PHONO3_R
LINE3_L
LINE3_R
MIC3
AIN3_L
AIN3_R
3
CUE L+R DISPLAY
CUE SPLIT
PGM
HEADPHONE
CUE MIX
RETURN IN
FLANGER
ECHO
AUTO PAN
EFFECT
SEND/RETURN
EFFECTS MODULE
VOLUME
EFFECT CUE
SEND OUT
CHANNEL ASSIGN
SPEED
START/STOP
OMNITRONIC
EX530 BLOCK DIAGRAM
EX530.SCH
March 9, 2000



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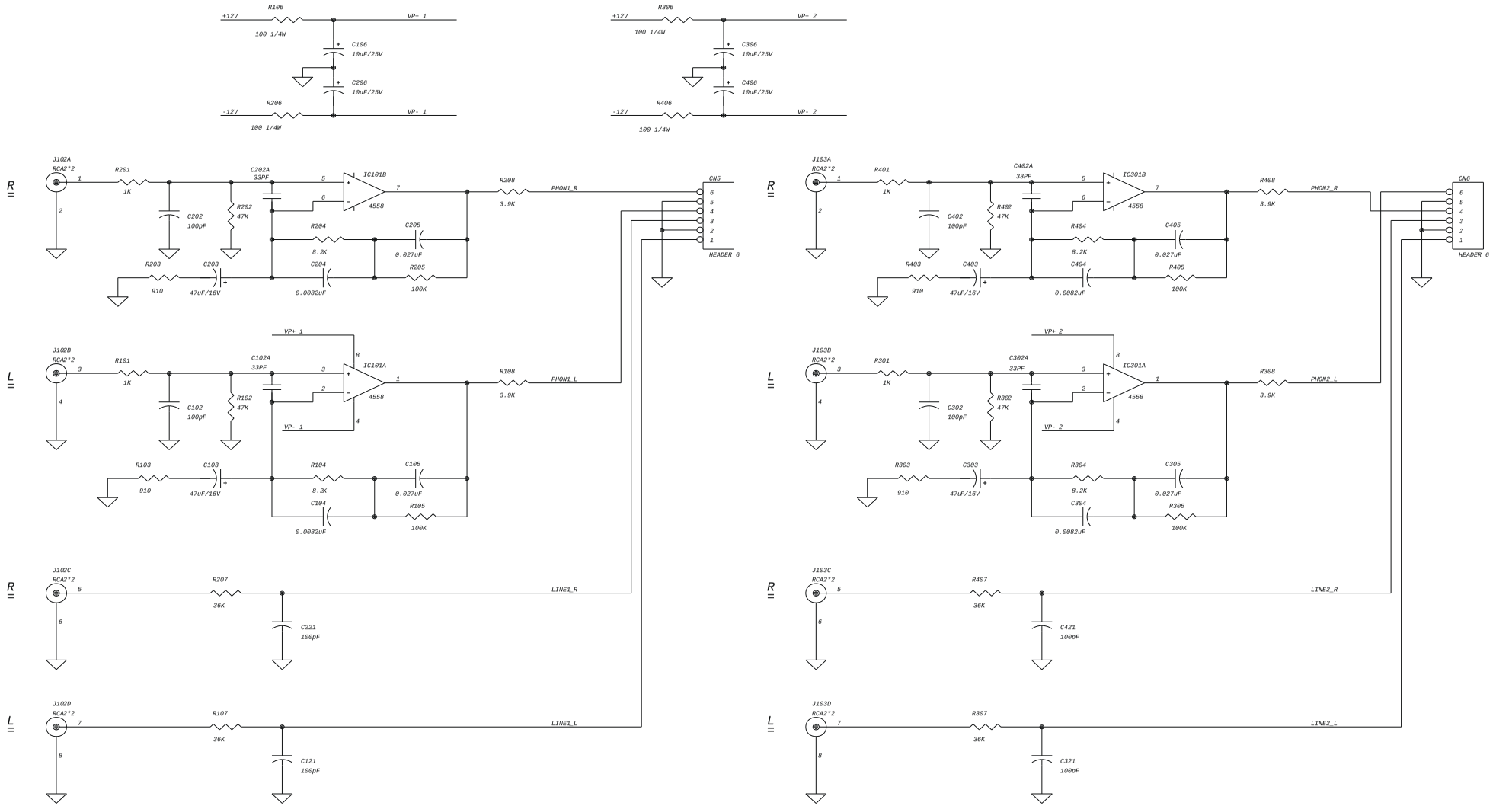
Date: March 9, 2000	Sheet 9 of 15	



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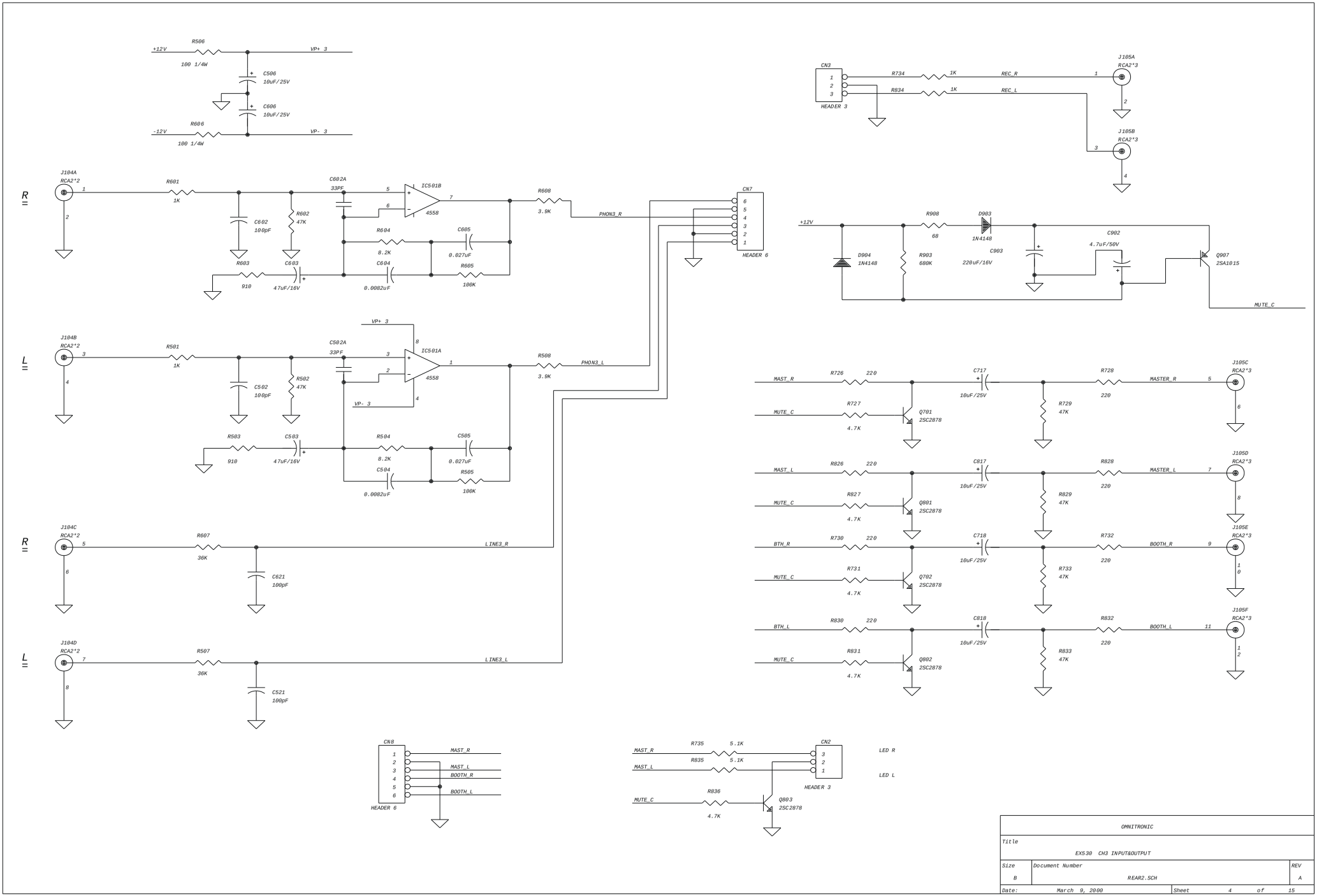
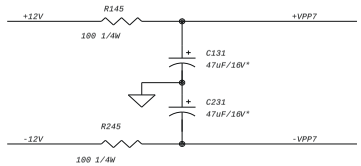
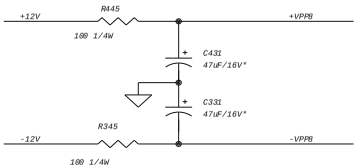
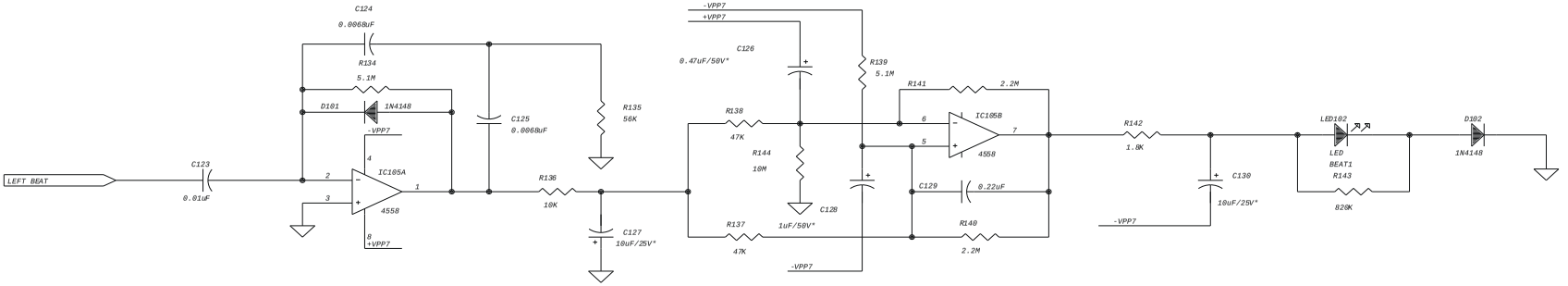
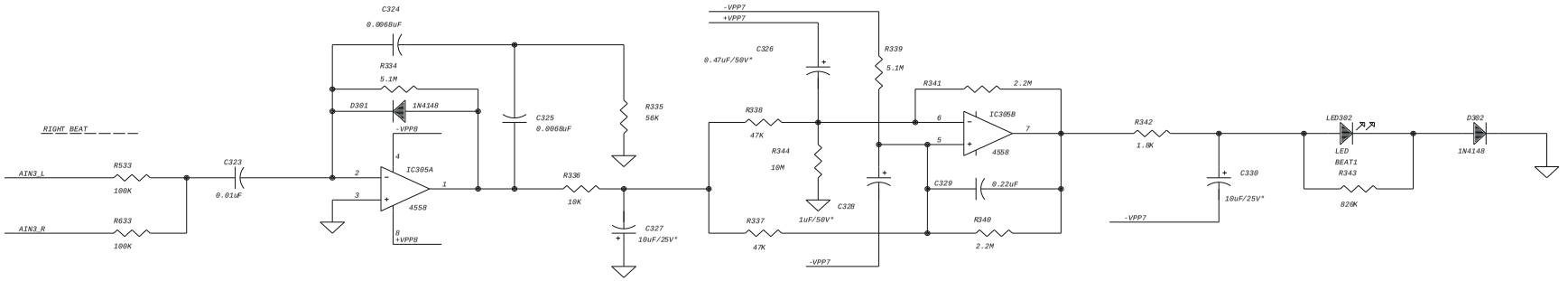
Date: March 9, 2000	Sheet 3 of 15	


R506
+12V
100 1/4W
VP+ 3
C506
10uF/25V
C606
10uF/25V
R606
-12V
100 1/4W
VP- 3
CN3
HEADER 3
R734
1K
REC_R
R834
1K
REC_L
J105A
RCA2*3
J105B
RCA2*3
J104A
RCA2*2
R
R601
1K
C602
100pF
R602
47K
C602A
33PF
IC501B
4558
R608
3.9K
PHONE3_R
R603
910
C603
47uF/16V
C604
0.0082uF
R604
8.2K
C605
0.027uF
R605
100K
CN7
HEADER 6
+12V
R908
68
D903
1N4148
D904
1N4148
R903
680K
C903
220uF/16V
C902
4.7uF/50V
Q907
2SA1015
MUTE_C
J104B
RCA2*2
L
R501
1K
C502
100pF
R502
47K
C502A
33PF
VP+ 3
IC501A
4558
VP- 3
R508
3.9K
PHONE3_L
R503
910
C503
47uF/16V
C504
0.0082uF
R504
8.2K
C505
0.027uF
R505
100K
MAST_R
R726
220
C717
10uF/25V
R728
220
MASTER_R
J105C
RCA2*3
MUTE_C
R727
4.7K
Q701
2SC2878
R729
47K
MAST_L
R826
220
C817
10uF/25V
R828
220
MASTER_L
J105D
RCA2*3
MUTE_C
R827
4.7K
Q801
2SC2878
R829
47K
BTH_R
R730
220
C718
10uF/25V
R732
220
BOOTH_R
J105E
RCA2*3
MUTE_C
R731
4.7K
Q702
2SC2878
R733
47K
BTH_L
R830
220
C818
10uF/25V
R832
220
BOOTH_L
J105F
RCA2*3
MUTE_C
R831
4.7K
Q802
2SC2878
R833
47K
J104C
RCA2*2
R
R607
36K
C621
100pF
LINE3_R
J104D
RCA2*2
L
R507
36K
C521
100pF
LINE3_L
CN8
HEADER 6
MAST_R
MAST_L
BOOTH_R
BOOTH_L
MAST_R
MAST_L
MUTE_C
R735
5.1K
R835
5.1K
R836
4.7K
Q803
2SC2878
CN2
HEADER 3
LED R
LED L
OMNITRONIC
Title
EX530 CH3 INPUT&OUTPUT
Size
B
Document Number
REAR2.SCH
REV
A
Date:
March 9, 2000
Sheet
4
of
15









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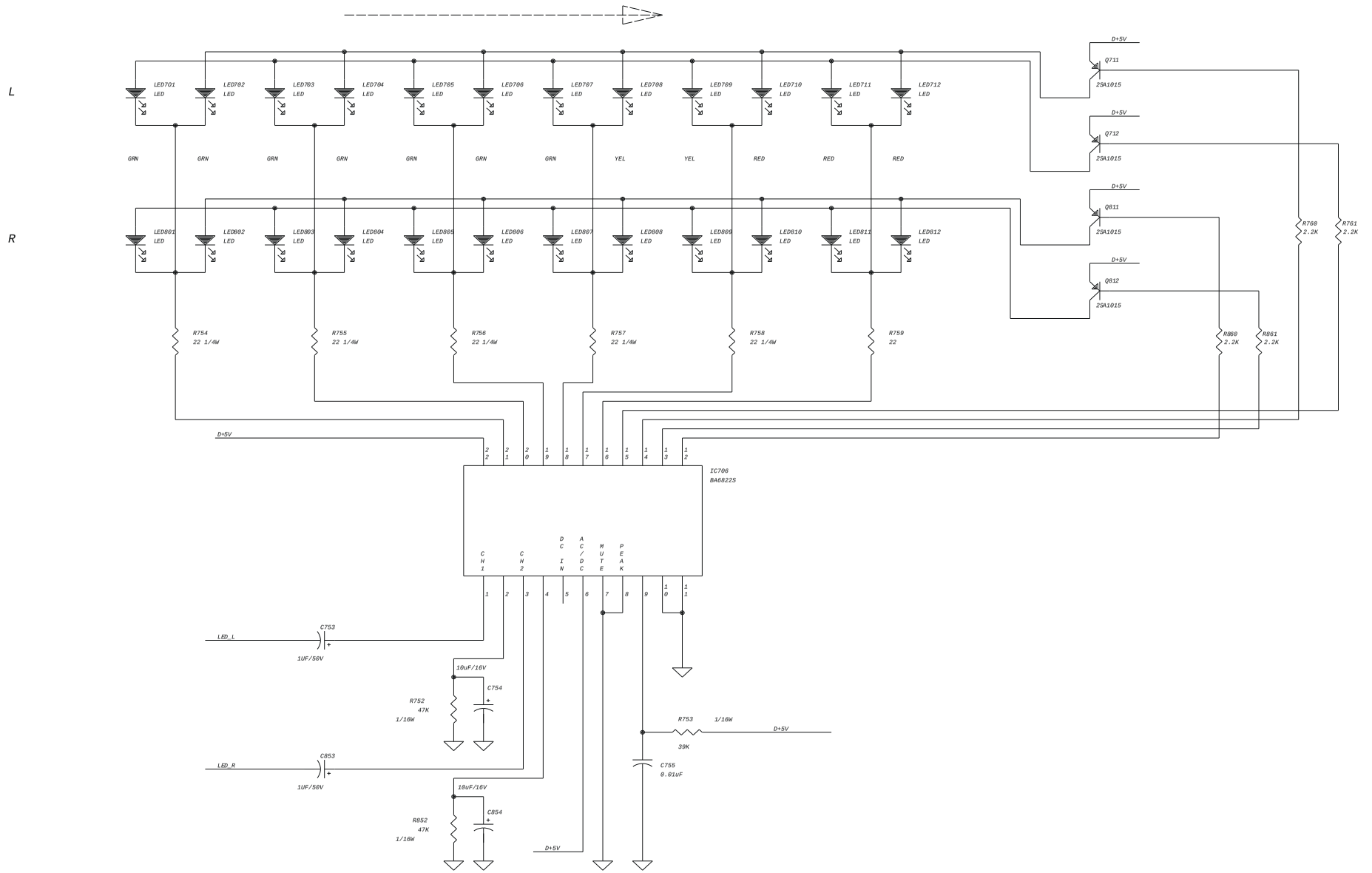
Size: B	Document Number: BEAT.SCH	REV: A
Date: March 9, 2000	Sheet 10 of 15	



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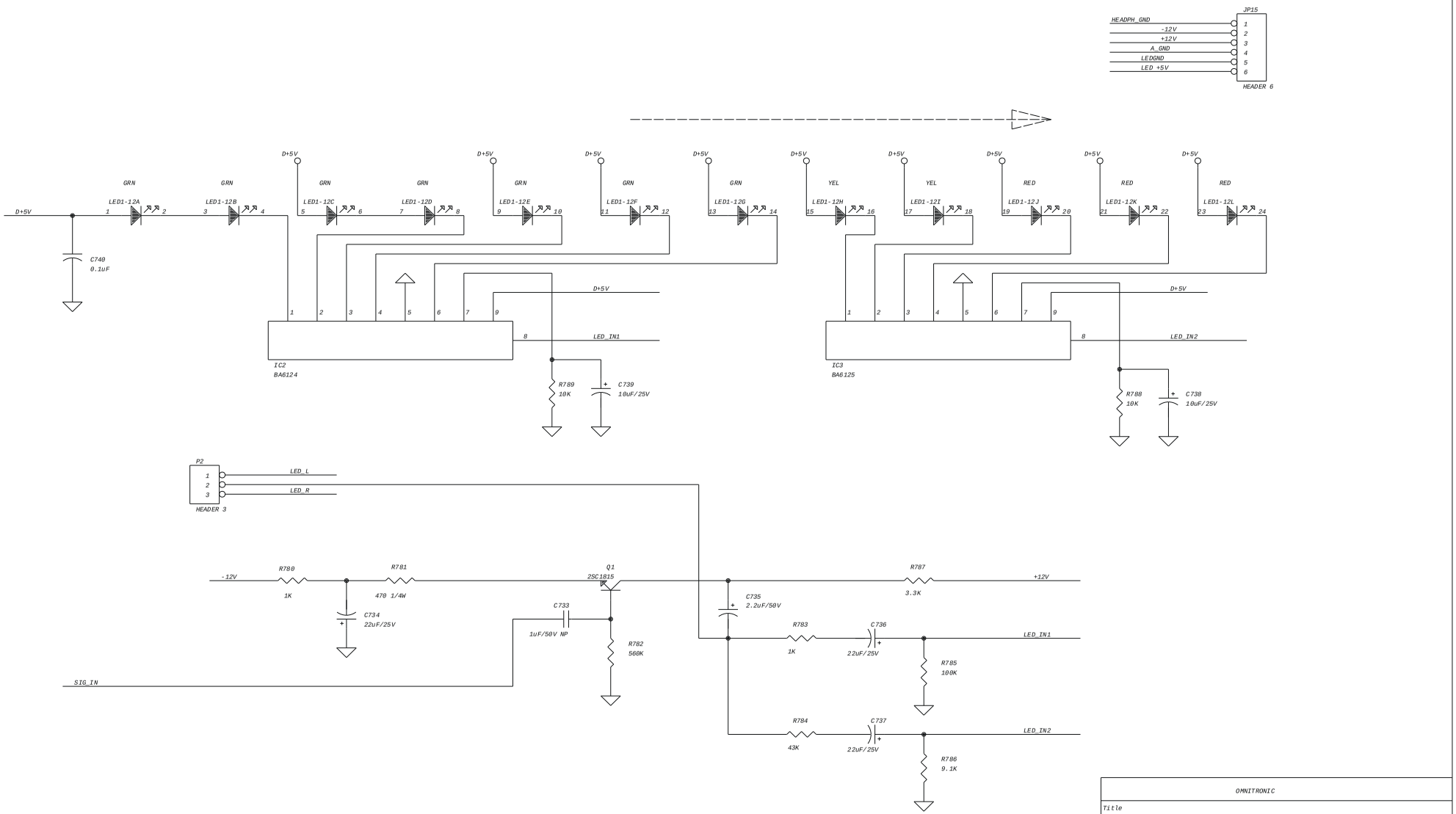
Size: B	Document Number: LED2.SCH	REV: A
Date: March 9, 2000	Sheet 5 of 15	



OMNITRONIC		
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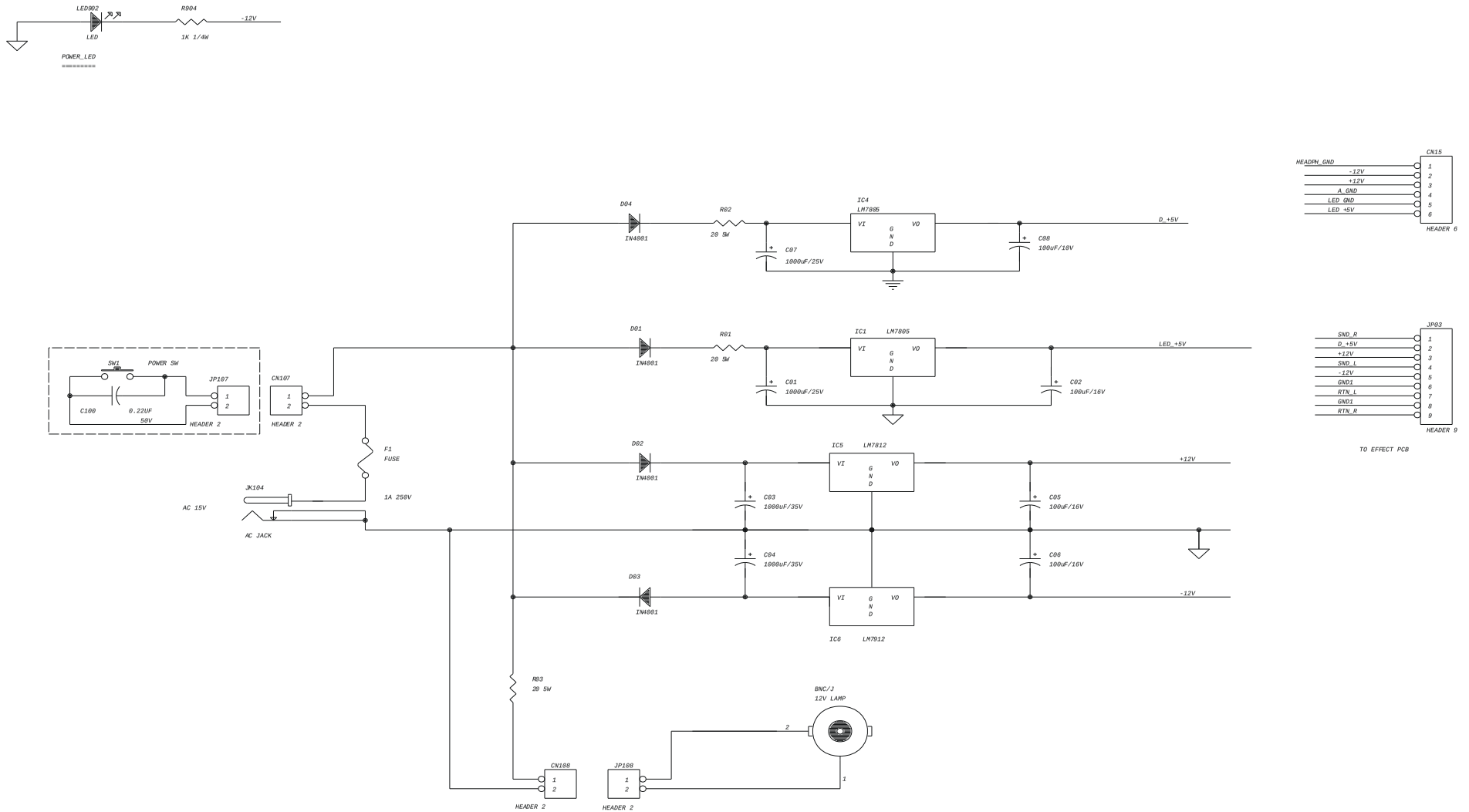
Size: B	Document Number: LED1.SCH	REV: A
Date: March 9, 2000	Sheet 13 of 15	



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Title: EX530 POWER SUPPLY		
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